

WEST**Freeform Search**

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Search History

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	ashkenazi-avi\$.in.	4	<u>L5</u>
USPT	l3 and (apopt\$ or tnf\$)	31	<u>L4</u>
USPT	l1 or l2	20294	<u>L3</u>
USPT	LIT or TR5	20161	<u>L2</u>
USPT	Apo-2DcR or TRAIL-3 or TRID or DcR1	134	<u>L1</u>

AC W64668;
 DT 23-OCT-1998 (first entry)
 DE Human TRID protein.
 KW TRAIL receptor without intracellular domain; TRID; TNFR-5; human;
 KW tumour necrosis factor receptor-5; TNF-related apoptosis-inducing ligand;
 KW haematopoietic tissue; immune system; ligand; apoptosis; treatment.
 OS Homo sapiens.
 FH Key Location/Qualifiers
 FT Peptide 1..27
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 FT Protein 27..259
 FT /label= TRID
 FT Region 42..52
 FT /label= epitope
 FT Region 58..66
 FT /label= epitope
 FT Region 68..76
 FT /label= epitope
 FT Region 79..85
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 FT Region 91..102
 FT /label= epitope
 FT Region 110..122
 FT /label= epitope
 FT Region 126..136
 FT /label= epitope
 FT Region 142..148
 FT /label= epitope
 PN WO9830693-A2.
 PD 16-JUL-1998.
 PF 13-JAN-1998; U00152.
 PR 07-AUG-1997; US-054885.
 PR 14-JAN-1997; US-035496.
 PA (HUMA-) HUMAN GENOME SCI INC.
 PI Ebner R, Feng P, Gentz RL, Ni J, Ruben SM, Wei Y,
 PI Yu G;
 DR WPI; 98-399141/34.
 DR N-PSDB; V51348.
 PT Human TRAIL receptor without an intracellular domain polypeptide -
 PT used in the diagnosis of immune system-related disorder(s)
 PS Claim 1b; Fig 1; 90pp; English.
 CC This sequence represents a human TRID (TRAIL (TNF-related
 CC apoptosis-inducing ligand) receptor without an intracellular domain).
 CC TRID is a member of the tumour necrosis factor receptor (TNFR) family
 CC also known as TNFR-5. TRID is expressed in haematopoietic tissues and
 CC other normal human tissues. For a number of immune system-related
 CC disorders, substantially altered (whether increased or decreased) levels
 CC of TRID gene expression can be detected, therefore the TRID polypeptides,
 CC nucleic acids and antibodies are useful in the diagnosis of such immune
 CC system related disorders. Mutations of the TRID gene can also be
 CC detected. TRID can also be used to identify ligands which may be useful
 CC in the treatment of apoptosis related disorders. TRID is administered to
 CC humans at a parenteral dose of 0.01 to 1 mg/kg/day.
 SQ Sequence 259 AA;

Query Match 100.0%; Score 1783; DB 34; Length 259;
 Best Local Similarity 100.0%; Pred. No. 1.42e-127;

AC W76331;
 DT 11-JAN-1999 (first entry)
 DE Human tumour necrosis related receptor TR5.
 KW Tumour necrosis related receptor; TR5; human; inflammation;
 KW arthritis; septicaemia; transplant rejection; autoimmune disease;
 KW inflammatory bowel disease; graft versus host disease; infection;
 KW stroke; ischaemia; acute respiratory disease syndrome; psoriasis;
 KW restenosis; brain injury; AIDS; bone disease; cancer;
 KW atherosclerosis; Alzheimer's disease; therapy; diagnosis.
 OS Homo sapiens.
 FH Key Location/Qualifiers
 FT Peptide 1..165
 FT /label= Sig_peptide
 FT Protein 66..299
 FT /label= Mat_protein
 PN EP-867509-A2.
 PD 30-SEP-1998.
 PF 04-FEB-1998; 300827.
 PR 28-JUL-1997; US-901469.
 PR 05-FEB-1997; US-795910.
 PA (SMIK) SMITHKLINE BEECHAM CORP.
 PI Lyn SDP, Tan KB, Truneh A, Young PR;
 DR WPI; 98-497862/43.
 DR N-PSDB; V56990.
 PT New polynucleotide encoding TR5 polypeptide - used to diagnose,
 PT prevent and treat e.g. inflammation, arthritis, septicaemia,
 PT autoimmune diseases, infections, stroke, ischaemia, ARDS, psoriasis,
 PT restenosis, brain injury, AIDS and bone diseases
 PS Claim 5; Fig 1; 22pp; English.
 CC This is the amino acid sequence of human tumour necrosis related
 CC receptor TR5, as deduced from the sequence of an isolated cDNA
 CC clone (see V56990). The protein is characterised as a GPI-linked
 CC protein that has a membrane proximal O-glycosylation region. The
 CC invention provides methods for the recombinant production of TR5
 CC and its use in diagnostic and therapeutic methods. Treatment of a
 CC subject in need of enhanced TR5 activity comprises administering an
 CC agonist to the polypeptide and/or providing TR5 polynucleotide in a
 CC form so as to effect production of the polypeptide activity in vivo.
 CC Treatment of a subject with the need to inhibit TR5 polypeptide
 CC activity comprises administering an antagonist to the polypeptide,
 CC administering a nucleic acid that inhibits the expression of the
 CC nucleotide sequence encoding the polypeptide and/or administering a
 CC polypeptide that competes with the polypeptide for its ligand,
 CC substrate or receptor. Diagnosing a disease or a susceptibility
 CC to a disease related to expression or activity of TR5 polypeptide,
 CC comprises determining the presence or absence of mutation in the
 CC nucleotide sequence encoding the TR5 polypeptide in the genome of
 CC the subject and/or analysing for the presence or amount of TR5
 CC polypeptide expression in a sample. Identification of compounds
 CC which bind to TR5 comprises contacting host cells with a candidate
 CC compound and assessing the ability of it to bind to the cells. The
 CC active agents can be used for the treatment of chronic and acute
 CC inflammation, arthritis, septicaemia, autoimmune diseases (e.g.
 CC inflammatory bowel disease, psoriasis), transplant rejection,
 CC graft vs host disease, infection, stroke, ischaemia, acute
 CC respiratory disease syndrome, restenosis, brain injury, AIDS, bone
 CC diseases, cancer (e.g. lymphoproliferative disorders),

CC atherosclerosis and Alzheimer's disease.
SQ Sequence 299 AA;

Query Match 100.0%; Score 1783; DB 36; Length 299;
Best Local Similarity 100.0%; Pred. No. 1.42e-127;
Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      41 maripktlkfvvvivavllpvlaysattarqeevpqqtvapqqqrhsfkgeecpagshrs 100
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Qy      1 MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVAPQQQRHSFKGEECPAGSHRS 60

Db     101 ehtgacnpctegvdytnasnnepscfpctvcksdqkhkssctmtrdtvcqckegtfrnen 160
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy     61 EHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKSSCTMTRDTVCQCKEGTFRNEN 120
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AC W64483;
 DT 20-OCT-1998 (first entry)
 DE Human DR4 protein.
 KW Death domain containing receptor 4; DR4; apoptosis; cancer; inflammation;
 KW agonist; tumour necrosis factor; TNF; ligand; autoimmune disease;
 KW infection; graft rejection; antagonist; inhibitor; diagnostic.
 OS Homo sapiens.
 FH Key Location/Qualifiers
 FT Peptide 1..23
 FT /label= signal
 FT Protein 24..468
 FT /label= DR4
 FT Domain 24..238
 FT /label= extracellular_domain
 FT Domain 239..264
 FT /label= transmembrane_domain
 FT Domain 265..468
 FT /label= intracellular_domain
 FT Domain 379..422
 FT /label= death_domain
 PN W09832856-A1.
 PD 30-JUL-1998.
 PF 27-JAN-1998; U01464.
 PR 05-FEB-1997; US-037829.
 PR 28-JAN-1997; US-035722.
 PA (HUMA-) HUMAN GENOME SCI INC.
 PA (UNMI) UNIV MICHIGAN.
 PI Dixit VM, Gentz RL, Ni J, Pan JG, Rosen CA;
 DR WPI; 98-427952/36.
 DR N-PSDB; V49527.
 PT Nucleic acid encoding human death domain-containing receptor 4 -
 PT useful for therapeutic modulation of apoptosis, in e.g. cancer and
 PT autoimmune diseases
 PS Claim 1a; Fig 1; 92pp; English.
 CC This sequence represents a human death domain containing receptor 4, DR4.
 CC DR4 agonists are used to increase apoptosis induced by tumour necrosis
 CC factor (TNF)-family ligands, e.g. in cases of cancer, autoimmune disease,
 CC viral or other infections, inflammation, graft vs. host disease, acute or
 CC chronic graft rejection. Antagonists of DR4 are used to inhibit such
 CC apoptosis, e.g. in cases of acquired immune deficiency syndrome,
 CC neurodegenerative disease, myelodysplastic syndrome, ischaemic injury,
 CC toxin-induced liver damage, septic shock, cachexia and anorexia, also a
 CC wide range of inflammatory conditions. DR4 of fragments of the protein
 CC are used diagnostically, e.g. to detect mutant forms of DR4 (possibly
 CC associated with disease), for isolating the DR4 gene or related sequences
 CC and for chromosomal mapping.
 SQ Sequence 468 AA;

Query Match 34.6%; Score 617; DB 34; Length 468;
 Best Local Similarity 60.4%; Pred. No. 8.48e-37;
 Matches 90; Conservative 24; Mismatches 29; Indels 6; Gaps 3;

Db 87 rvhktfkfvvv--gvllqvvpssaatiklhd---qsigtqqwehspplgelcppgshrser 141
 | : ||:|||| | :|| |:: ||:| : : |::: || || || ||:|||||:
 Qy 3 RIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVAPQQQRHSFKGEECPAGSHRSEH 62
 Db 142 pgacnrctegvgyt nasnnlfaclpctacksdeeerspctttrntacqckpgtfrndnsa 201

Apo-2DcR

SUMMARIES

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		Match	%					
1	1783	100.0		259	15	US-09-006-	Sequence 2, Applicatio	1.98e-136
2	1783	100.0		259	14	US-08-924-	Sequence 6, Applicatio	1.98e-136
3	1783	100.0		259	2	US-60-035-	Sequence 2, Applicatio	1.98e-136
4	1783	100.0		259	13	US-08-878-	Sequence 1, Applicatio	1.98e-136
5	1783	100.0		259	15	US-09-096-	Sequence 1, Applicatio	1.98e-136
6	1783	100.0		259	13	US-08-878-	Sequence 1, Applicatio	1.98e-136
7	1783	100.0		299	17	US-09-205-	Sequence 11, Applicati	1.98e-136
8	1783	100.0		299	12	US-08-795-	Sequence 2, Applicatio	1.98e-136
9	1783	100.0		299	13	US-08-878-	Sequence 3, Applicatio	1.98e-136
10	1783	100.0		299	15	US-09-096-	Sequence 3, Applicatio	1.98e-136
11	1783	100.0		299	1	PCT-US98-1	Sequence 2, Applicatio	1.98e-136
12	1783	100.0		299	17	US-09-266-	Sequence 8, Applicatio	1.98e-136
13	1783	100.0		299	16	US-09-134-	Sequence 4, Applicatio	1.98e-136
14	1783	100.0		299	13	US-08-883-	Sequence 2, Applicatio	1.98e-136
15	1783	100.0		299	17	US-09-229-	Sequence 2, Applicatio	1.98e-136
16	1783	100.0		299	15	US-09-079-	Sequence 2, Applicatio	1.98e-136
17	1783	100.0		299	1	PCT-US99-0	Sequence 8, Applicatio	1.98e-136
18	1783	100.0		299	13	US-08-878-	Sequence 3, Applicatio	1.98e-136
19	1783	100.0		299	14	US-08-901-	Sequence 2, Applicatio	1.98e-136
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21	823	46.2		386	13	US-08-892-	Sequence 2, Applicatio	7.60e-56

AC 014798;
 DT 01-JAN-1998 (TREMBLREL. 05, CREATED)
 DT 01-JAN-1998 (TREMBLREL. 05, LAST SEQUENCE UPDATE)
 DT 01-NOV-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
 DE CYTOTOXIC TRAIL RECEPTOR-3.
 GN TRAIL-R3.
 OS HOMO SAPIENS (HUMAN).
 OC EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
 OC CATARRHINI; HOMINIDAE; HOMO.
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MACFARLANE M., AHMAD M., SRINIVASULA S.M., FERNANDES-ALNEMRI T.,
 RA COHEN G.M., ALNEMRI E.S.;
 RL J. BIOL. CHEM. 0:0-0(1997).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE; 97461602.
 RA DEGLI-ESPOSTI M.A., SMOLAK P.J., WALCZAK H., WAUGH J., HUANG C.P.,
 RA DUBOSE R.F., GOODWIN R.G., SMITH C.A.;
 RT "Cloning and characterization of TRAIL-R3, a novel member of the
 RT emerging TRAIL receptor family."
 RL J. EXP. MED. 186:1165-1170(1997).
 DR EMBL; AF020502; G2443820; -.
 DR EMBL; AF014794; G2957264; -.
 DR PFAM; PF00020; TNFR_c6; 2.
 SQ SEQUENCE 299 AA; 31759 MW; 59B93A14 CRC32;

Query Match 100.0%; Score 1783; DB 4; Length 299;
 Best Local Similarity 100.0%; Pred. No. 5.82e-237;
 Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	61	EHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKSSCTMTRDTVQCCKEGTFRNEN	120
Db	161	SPEMCRKCSRCPSGEVQVSNCTSWDDIQCVEEFGANATVETPAAEETMNTSPGTPAPAAE	220
Qy	121	SPEMCRKCSRCPSGEVQVSNCTSWDDIQCVEEFGANATVETPAAEETMNTSPGTPAPAAE	180
Db	221	ETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPASSHY	280
Qy	181	ETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPASSHY	240
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Qy	241	LSCTIVGIIVLIVLLIVFV	259

AC 014755;
 DT 01-JAN-1998 (TREMBLREL. 05, CREATED)
 DT 01-JAN-1998 (TREMBLREL. 05, LAST SEQUENCE UPDATE)
 DT 01-NOV-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
 DE TRAIL RECEPTOR 3.
 OS HOMO SAPIENS (HUMAN).
 OC EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
 OC CATARRHINI; HOMINIDAE; HOMO.
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=LIVER, AND SPLEEN;
 RA SCHNEIDER P., BODMER J.-L., THOME M., HOLLER N., HOFMANN K.,
 RA TSCHOPP J.;
 RL FEBS LETT. 0:0-0(1997).
 DR EMBL; AF016267; G2529565; -.
 DR PFAM; PF00020; TNFR_c6; 2.
 SQ SEQUENCE 259 AA; 27365 MW; 3C196935 CRC32;

Query Match 99.5%; Score 1774; DB 4; Length 259;
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 Matches 258; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy	61	EHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKSCTMTRD TVCQCKEGTFRNEN	120
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LOCUS AF012536 1180 bp mRNA PRI 21-AUG-1997
 DEFINITION Homo sapiens decoy receptor 1 (DcR1) mRNA, complete cds.
 ACCESSION AF012536
 NID g2338421
 VERSION AF012536.1 GI:2338421
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 SOURCE human.
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 Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1180)
 AUTHORS Sheridan,J.P., Marsters,S.A., Pitti,R.M., Gurney,A., Skubatch,M.,
 Baldwin,D., Ramakrishnan,L., Gray,C.L., Baker,K., Wood,W.I.,
 Goddard,A.D., Godowski,P. and Ashkenazi,A.
 TITLE Control of TRAIL-induced apoptosis by a family of signaling and
 decoy receptors
 JOURNAL Science 277 (5327), 818-821 (1997)
 MEDLINE 97390509
 REFERENCE 2 (bases 1 to 1180)
 AUTHORS Sheridan,J.P., Marsters,S.A., Pitti,R.M., Gurney,A., Baldwin,D.,
 Ramakrishnan,L., Gray,C.L., Baker,K., Wood,W.I., Goddard,A.D.,
 Godowski,P. and Ashkenazi,A.
 TITLE Direct Submission
 JOURNAL Submitted (06-JUL-1997) Molecular Oncology, Genentech, 1 DNA Way,
 South San Francisco, CA 94080, USA
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 inhibits apoptosis induction by TRAIL/Apo2L"
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LOCUS AF033854 1377 bp mRNA PRI 27-NOV-1997
 DEFINITION Homo sapiens lymphocyte inhibitor of TRAIL (LIT) mRNA, complete cds.
 ACCESSION AF033854
 NID g2645841
 VERSION AF033854.1 GI:2645841
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1377)
 AUTHORS Mongkolsapaya,J., Cowper,A., Xu,X., Morris,G., McMichael,A.J., Bell,J.I. and Screaton,G.R.
 TITLE Lymphocyte inhibitor of TRAIL: A new receptor protecting lymphocytes from the death ligand TRAIL
 JOURNAL J. Immunol. (1997) In press
 REFERENCE 2 (bases 1 to 1377)
 AUTHORS Mongkolsapaya,J., Cowper,A., Xu,X., Morris,G., McMichael,A.J., Bell,J.I. and Screaton,G.R.
 TITLE Direct Submission
 JOURNAL Submitted (10-NOV-1997) Immunology, Institute of Molecular Medicine, John Radcliffe Hospital, Headington, Oxford OX3 9DS, UK
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 /gene="LIT"
 CDS 177. .956
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 TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG
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 ORIGIN

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 Matches 1097; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	137	CTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG	196
Db	121	CTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG	180
Qy	197	CCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCCTGCTGCCAGTCC	256
Db	181	CCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCCTGCTGCCAGTCC	240
Qy	257	TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	316
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Qy	317	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	376
Db	301	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	360
Qy	377	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	436
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Qy	557	CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA	616
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Qy	617	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	676
Db	601	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	660
Qy	677	CAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGGACTCCTGCCCCAGCTGCTGAAGAGA	736
Db	661	CAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGGACTCCTGCCCCAGCTGCTGAAGAGA	720
Qy	737	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	796
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Qy	797	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCAGGGGACTCCTGCCC	856
Db	781	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCAGGGGACTCCTGCCC	840
Qy	857	CAGCTGCTGAAGAGACAATGACCACCAGCCCAGGGGACTCCTGCCTCTTCTCATTACCTCT	916
Db	841	CAGCTGCTGAAGAGACAATGACCACCAGCCCAGGGGACTCCTGCCTCTTCTCATTACCTCT	900
Qy	917	CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGAAAGA	976

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Db 1081 GCCTGCCCCTGCCCAA 1097

LOCUS AF016267 1388 bp mRNA PRI 04-MAR-1999
 DEFINITION Homo sapiens TRAIL receptor 3 mRNA, complete cds.
 ACCESSION AF016267
 NID g2529564
 VERSION AF016267.1 GI:2529564
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
 Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1388)
 AUTHORS Schneider,P., Bodmer,J.L., Thome,M., Hofmann,K., Holler,N. and
 Tschopp,J.
 TITLE Characterization of two receptors for TRAIL
 JOURNAL FEBS Lett. 416 (3), 329-334 (1997)
 MEDLINE 98039016
 REFERENCE 2 (bases 1 to 1388)
 AUTHORS Schneider,P., Bodmer,J.-L., Thome,M., Holler,N., Hofmann,K. and
 Tschopp,J.
 TITLE Direct Submission
 JOURNAL Submitted (28-JUL-1997) Institute of Biochemistry, University of
 Lausanne, Chemin des Boveresses 155, Epalinges, VD 1066,
 Switzerland
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Qy	857	CAGCTGCTGAAGAGACAATGACCACCAGCCCAGGGGACTCCTGCCTCTTCTCATTACCTCT	916
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Qy	977	CTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGTAGGCGCTGGCTGAGGG	1036
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Db	1032	CGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCCACAGACAGAAAC	1091
Qy	1097	GCCTGCCCCTGCCCCAA	1113
Db	1092	GCCTGCCCCTGCCCCAA	1108

LOCUS AF014794 1365 bp mRNA PRI 13-MAR-1998
 DEFINITION Homo sapiens TNF related TRAIL receptor (TRAIL-R3) mRNA, complete cds.
 ACCESSION AF014794
 NID g2957263
 VERSION AF014794.1 GI:2957263
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1365)
 AUTHORS Degli-Esposti, M.A., Smolak, P.J., Walczak, H., Waugh, J., Huang, C.P., DuBose, R.F., Goodwin, R.G. and Smith, C.A.
 TITLE Cloning and characterization of TRAIL-R3, a novel member of the emerging TRAIL receptor family
 JOURNAL J. Exp. Med. 186 (7), 1165-1170 (1997)
 MEDLINE 97461602
 REFERENCE 2 (bases 1 to 1365)
 AUTHORS Degli-Esposti, M.A.
 TITLE Direct Submission
 JOURNAL Submitted (15-JUL-1997) Biochemistry, Immunex, 51 University Street, Seattle, WA 98101, USA
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 BASE COUNT 332 a 403 c 363 g 267 t
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Query Match 89.6%; Score 1057; DB 11; Length 1365;
 Best Local Similarity 100.0%; Pred. No. 2.8e-210;
 Matches 1057; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	134	 CGTCGGGAACCATAACCATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGT	193
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Db	194	 CGCGGTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCC	253
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Qy	357	AGGATCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTA	416
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Db	614	 CAATGCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCC	673
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Qy	777	AGAGACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCAC	836
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Qy	837	CAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCC	896
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Db	854	 TGCCTCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCT	913
Qy	957	GATTGTGTTTGTGTTGAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTT	1016

Db 914 GATTGTGTTTGTGTTGAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTT 973

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Db 974 AGGTAGGCGCTGGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCT 1033

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LOCUS       AF020502      900 bp      mRNA                      PRI          04-MAR-1999
DEFINITION  Homo sapiens cytotoxic TRAIL receptor-3 (TRAIL-R3) mRNA, complete
            cds.
ACCESSION   AF020502
VERSION     AF020502.1   GI:2443819
KEYWORDS     .
SOURCE      human.
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            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
            Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 900)
  AUTHORS   MacFarlane,M., Ahmad,M., Srinivasula,S.M., Fernandes-Alnemri,T.,
            Cohen,G.M. and Alnemri,E.S.
  TITLE     Identification and molecular cloning of two novel receptors for the
            cytotoxic ligand TRAIL
  JOURNAL   J. Biol. Chem. 272 (41), 25417-25420 (1997)
  MEDLINE   97467318
REFERENCE   2  (bases 1 to 900)
  AUTHORS   MacFarlane,M., Ahmad,M., Srinivasula,S.M., Fernandes-Alnemri,T.,
            Cohen,G.M. and Alnemri,E.S.
  TITLE     Direct Submission
  JOURNAL   Submitted (21-AUG-1997) Department of Microbiology and Immunology,
            Kimmel Cancer Institute, 233 S. 10th Street, Philadelphia, PA
            19107, USA
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LOCUS AF012629 780 bp mRNA PRI 21-AUG-1997
 DEFINITION Homo sapiens antagonist decoy receptor for TRAIL/Apo-2L (TRID)
 mRNA, complete cds.
 ACCESSION AF012629
 NID g2338430
 VERSION AF012629.1 GI:2338430
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
 Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 780)
 AUTHORS Pan,G., Ni,J., Wei,Y.F., Yu,G., Gentz,R. and Dixit,V.M.
 TITLE An antagonist decoy receptor and a death domain-containing receptor
 for TRAIL
 JOURNAL Science 277 (5327), 815-818 (1997)
 MEDLINE 97390508
 REFERENCE 2 (bases 1 to 780)
 AUTHORS Pan,G., Ni,J., Wei,Y., Yu,G., Gentz,R. and Dixit,V.M.
 TITLE Direct Submission
 JOURNAL Submitted (06-JUL-1997) Pathology, University of Michigan, 1301
 Catherine Road, Room 7518, Ann Arbor, MI 48109, USA
 FEATURES Location/Qualifiers
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Qy	493		TGCACCATGACCAGAGACACAGTGTGTCAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	552
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Qy	553		TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	612
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Qy	613		TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	672
Db	421		TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	480
Qy	673		ACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	732
Db	481		ACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	540
Qy	733		GAGACAATGAACACCAGCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	792
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Qy	793		AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	852
Db	601		AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	660
Qy	853		GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	912
Db	661		GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	720
Qy	913		CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	972
Db	721		CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	780

LOCUS AF029761 1726 bp mRNA PRI 08-JAN-1999
 DEFINITION Homo sapiens decoy receptor 2 mRNA, complete cds.
 ACCESSION AF029761
 NID g4106963
 VERSION AF029761.1 GI:4106963
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
 Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1726)
 AUTHORS Marsters,S.A., Sheridan,J.P., Pitti,R.M., Huang,A., Skubatch,M.,
 Baldwin,D., Yuan,J., Gurney,A., Goddard,A.D., Godowski,P. and
 Ashkenazi,A.
 TITLE A novel receptor for Apo2L/TRAIL contains a truncated death domain
 JOURNAL Curr. Biol. 7 (12), 1003-1006 (1997)
 MEDLINE 98044290
 REFERENCE 2 (bases 1 to 1726)
 AUTHORS Marsters,S.A., Sheridan,J.P., Pitti,R.M., Huang,A., Skubatch,M.,
 Baldwin,D., Yuan,J., Gurney,A., Goddard,A.D., Godowski,P. and
 Ashkenazi,A.
 TITLE Direct Submission
 JOURNAL Submitted (14-OCT-1997) Molecular Oncology, Genentech, 1 DNA Way,
 South San Francisco, CA 94080, USA
 REFERENCE 3 (bases 1 to 1726)
 AUTHORS Marsters,S.A., Sheridan,J.P., Pitti,R.M., Huang,A., Skubatch,M.,
 Baldwin,D., Yuan,J., Gurney,A., Goddard,A.D., Godowski,P. and
 Ashkenazi,A.
 TITLE Direct Submission
 JOURNAL Submitted (06-JAN-1999) Molecular Oncology, Genentech, 1 DNA Way,
 South San Francisco, CA 94080, USA
 REMARK Sequence update by submitter
 COMMENT On Jan 6, 1999 this sequence version replaced gi:2688980.
 FEATURES
 Location/Qualifiers
 source 1. .1726
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="8"
 /map="8p21"
 CDS 83. .1243
 /function="inhibitory receptor for Apo2L/TRAIL"
 /note="DcR2; member of the TNF receptor superfamily that
 contains a truncated death domain"
 /codon_start=1
 /product="decoy receptor 2"
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 /translation="MGLWGQSVPTASSARAGRYPGARTASGTRPWLLDPKILKFVVF
 VAVLLPVRVDSATIPRQDEVPPQQTVAPOQQRRSLKEEECPAGSHRSEYTGACNPCTEG
 VDYTIASNNLPSCLLCTVCKSGQTNKSSCTTTTRDTVCQCEKGSFQDKNSPEMCRTCRT
 GCPRGMVKVSNCTPRSDIKCKNESAASSTGKTPAAEETVTTLGMLASPYHYLIIVV
 LVIILAVVVVGFSCRKKFISYLGKICSGGGGGPERVHRVLFRRRSCPSRVPGAEDNAR
 NETLSNRYLQPTQVSEQEIQQQELAEALTGVTVESPEEPQRLLEQAEAGCQRRRLVLP
 VNDADSADISTLLDASATLEEGHAKETIQDQLVGSEKLFYEDEAGSATSCL"
 BASE COUNT 440 a 432 c 443 g 411 t
 ORIGIN

Query Match 36.5%; Score 430.2; DB 11; Length 1726;
Best Local Similarity 77.7%; Pred. No. 3.8e-80;
Matches 579; Conservative 0; Mismatches 143; Indels 23; Gaps 4;

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Qy      6 GGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTG 65
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Db      2 GAGAACCTTTGCACGCGCACAACTACGGGGACGATTTCTGATTGATTTTGGCGCTTTC 61

Qy     66 ACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACCTCTGGGGACAGAGC 125
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Db     62 -----GATCCACCCTCCTCCCTTCTCATGGGACTTTGGGGACAAAGC 103

Qy    126 GCCCCGGCCGCCT-GATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGA 184
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db    104 GTCCCGACCGCCTCGAGCGCTCGAGCAGGGCGCTATCCAGGAGCCAGGACAGCGTCGGGA 163
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AC V84347;
 DT 26-APR-1999 (first entry)
 DE Human Apo-2DcR cDNA clone DNA33085.
 KW Apo-2DcR; human; apoptosis; tumour necrosis factor receptor;
 KW neurodegeneration; autoimmune disease; inflammation; cancer;
 KW therapy; ds.
 OS Homo sapiens.
 FH Key Location/Qualifiers
 FT CDS 193. .972
 FT /*tag= a
 FT sig_peptide 193. .279
 FT /*tag= b
 FT mat_peptide 280. .969
 FT /*tag= c
 FT CDS 93. .972
 FT /*tag= d
 FT /note= "alternative translational initiation
 FT site at 93. .95, encodes amino acid
 FT residues -40 to 259 of Apo-2DcR"
 PN WO9858062-A1.
 PD 23-DEC-1998.
 PF 12-JUN-1998; U12456.
 PR 18-JUN-1997; US-878168.
 PA (GETH) GENENTECH INC.
 PI Ashkenazi AJ, Baker KP, Chuntharapai A, Gurney A,
 PI Kim KJ, Wood WI;
 DR WPI; 99-095340/08.
 DR P-PSDB; W84347.
 PT New Apo-2DcR polypeptide - used for modulation and diagnosis of
 PT apoptosis, e.g. in neurodegeneration
 PS Claim 36; Page 51-53; 88pp; English.
 CC cDNA clone DNA33085 codes for human Apo-2DcR (see W88408), a novel
 CC member of the tumour necrosis factor receptor family that binds to
 CC Apo-2 ligand. It was isolated by: transformation of yeast with a
 CC vector incorporating human breast carcinoma cDNA; isolation of
 CC yeast clones secreting amylase; PCR amplification (see V84349-50)
 CC of the insert directly from the yeast colony and purification of
 CC DNA for sequencing; use of an isolated sequence (DNA21705) as a
 CC probe to screen a human foetal lung library; and isolation of the
 CC full-length clone, which is deposited as ATCC 209087. An
 CC alternative translational initiation site encodes amino acid
 CC residues -40 to 259 of Apo-2DcR (see W88409). The invention
 CC provides vectors and host cells for recombinant production of
 CC Apo-2DcR polypeptides, antibodies, and transgenic and knockout
 CC animals (useful e.g. for screening and developing drugs that protect
 CC against excessive apoptosis). Apo-2DcR, or chimeras comprising
 CC Apo-2DcR or its extracellular domain fused to a heterologous
 CC polypeptide are used to modulate apoptosis of mammalian cells
 CC (claimed) and/or NF-kappaB activation by Apo-2 ligand, and may be
 CC expressed in vivo or ex vivo for gene therapy. They can be used in
 CC methods for the modulation and diagnosis of apoptosis e.g. in cases
 CC of neurodegeneration, autoimmune diseases and inflammation. Most
 CC human tumour cells do not express Apo-2DcR transcripts, but normal
 CC tissues do, suggesting that Apo-2DcR may permit selective killing
 CC of cancer cells by Apo-2 ligand, possibly by protecting normal, but
 CC not cancerous, cells.
 SQ Sequence 1180 BP; 338 A; 326 C; 298 G; 218 T;

Query Match 100.0%; Score 1180; DB 1; Length 1180;
Best Local Similarity 100.0%; Pred. No. 5.8e-240;
Matches 1180; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 GCTGTGGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGA 60
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Db      1 GCTGTGGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGA 60

Qy     61 GTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGGGGAC 120
        |||
Db     61 GTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGGGGAC 120

Qy    121 AGAGCGCCCCGGCCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTC 180
        |||
Db    121 AGAGCGCCCCGGCCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTC 180

Qy    181 GGGAACCATAACCATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCG 240
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Db    181 GGGAACCATAACCATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCG 240

Qy    241 GTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAG 300
        |||
Db    241 GTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAG 300

Qy    301 CAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGA 360
        |||
Db    301 CAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGA 360

Qy    361 TCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACC 420
        |||
Db    361 TCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACC 420

Qy    421 AACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAA 480
        |||
Db    421 AACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAA 480

Qy    481 CATAAAAGTTCCTGCACCATGACCAGAGACACAGTGTGTGTCAGTGTAAGAAGGCACCTTC 540
        |||
Db    481 CATAAAAGTTCCTGCACCATGACCAGAGACACAGTGTGTGTCAGTGTAAGAAGGCACCTTC 540

Qy    541 CGGAATGAAACTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTC 600
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Db    541 CGGAATGAAACTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTC 600

Qy    601 CAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAAT 660
        |||
Db    601 CAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAAT 660

Qy    661 GCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCC 720
        |||
Db    661 GCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCC 720

Qy    721 CCAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAG 780
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Db    721 CCAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAG 780
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Qy  781 ACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGC 840
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Db  781 ACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGC 840

Qy  841 CCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCC 900
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Db  841 CCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCC 900

Qy  901 TCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATT 960
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  901 TCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATT 960

Qy  961 GTGTTTGTGGTGAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGT 1020
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Db  961 GTGTTTGTGGTGAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGT 1020

Qy  1021 AGGCGCTGGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGT 1080
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Db  1021 AGGCGCTGGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGT 1080

Qy  1081 TCCACAGACAGAAACGCCTGCCCTGCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1140
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1081 TCCACAGACAGAAACGCCTGCCCTGCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1140

Qy  1141 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1180
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Db  1141 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1180

```

RESULT 2

V56990

ID V56990 standard; cDNA; 1410 BP.

AC V56990;

DT 11-JAN-1999 (first entry)

DE Human tumour necrosis related receptor TR5 cDNA.

KW Tumour necrosis related receptor; TR5; human; inflammation;

KW arthritis; septicaemia; transplant rejection; autoimmune disease;

KW inflammatory bowel disease; graft versus host disease; infection;

KW stroke; ischaemia; acute respiratory disease syndrome; psoriasis;

KW restenosis; brain injury; AIDS; bone disease; cancer;

KW atherosclerosis; Alzheimer's disease; therapy; diagnosis; ss.

OS Homo sapiens.

FH Key Location/Qualifiers

FT CDS 69. .968

FT /*tag= a

FT sig_peptide 69. .263

FT /*tag= b

FT mat_peptide 264. .965

FT /*tag= b

PN EP-867509-A2.

PD 30-SEP-1998.

PF 04-FEB-1998; 300827.

PR 28-JUL-1997; US-901469.

PR 05-FEB-1997; US-795910.

PA (SMIK) SMITHKLINE BEECHAM CORP.

PI Lyn SDP, Tan KB, Truneh A, Young PR;

DR WPI; 98-497862/43.
DR P-PSDB; W76331.
PT New polynucleotide encoding TR5 polypeptide - used to diagnose,
PT prevent and treat e.g. inflammation, arthritis, septicaemia,
PT autoimmune diseases, infections, stroke, ischaemia, ARDS, psoriasis,
PT restenosis, brain injury, AIDS and bone diseases
PS Claim 4; Fig 1; 22pp; English.
CC This nucleotide sequence codes for human tumour necrosis related
CC receptor, TR5 (see W76331). An expressed sequence tag (EST 213397)
CC derived from a cDNA library made from human prostate was found to
CC have sequence similarity to the human tumour necrosis factor (TNF)
CC receptor. A search through several overlapping ESTs indicated that
CC this represented the 5' most EST of the assemble and so it was
CC completely sequenced. Analysis of the 1410 cDNA sequence indicated
CC that it encoded a complete open reading frame for a novel member of
CC the TNF receptor superfamily. A polynucleotide encoding TR5 can
CC be obtained from a cDNA library derived from mRNA in cells of
CC prostate, endothelial cells, interleukin-1 beta-treated smooth
CC muscle cells, foetal liver spleen cells, and pregnant uterus using
CC expressed sequence tag analysis. Treatment of a subject in need of
CC enhanced TR5 polypeptide activity comprises administering an agonist
CC to the polypeptide and/or providing TR5 polynucleotide in a form so
CC as to effect production of the polypeptide activity in vivo.
CC Treatment of a subject with the need to inhibit TR5 polypeptide
CC activity comprises administering an antagonist to the polypeptide,
CC administering a nucleic acid that inhibits the expression of the
CC nucleotide sequence encoding the polypeptide and/or administering a
CC polypeptide that competes with the polypeptide for its ligand,
CC substrate or receptor. Diagnosing a disease or a susceptibility
CC to a disease related to expression or activity of TR5 polypeptide,
CC comprises determining the presence or absence of mutation in the
CC nucleotide sequence encoding the TR5 polypeptide in the genome of
CC the subject and/or analysing for the presence or amount of TR5
CC polypeptide expression in a sample. Identification of compounds
CC which bind to TR5 comprises contacting host cells with a candidate
CC compound and assessing the ability of it to bind to the cells. The
CC active agents can be used for the treatment of chronic and acute
CC inflammation, arthritis, septicaemia, autoimmune diseases (e.g.
CC inflammatory bowel disease, psoriasis), transplant rejection,
CC graft vs host disease, infection, stroke, ischaemia, acute
CC respiratory disease syndrome, restenosis, brain injury, AIDS, bone
CC diseases, cancer (e.g. lymphoproliferative disorders),
CC atherosclerosis and Alzheimer's disease.
SQ Sequence 1410 BP; 342 A; 420 C; 371 G; 277 T;

Query Match 93.6%; Score 1104.4; DB 1; Length 1410;
Best Local Similarity 99.9%; Pred. No. 4.9e-224;
Matches 1105; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 GAACCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGAC 67
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Db 4 GAGCCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGAC 63
Qy 68 CAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAAGTCTGGGGACAGAGCGC 127
||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 64 CAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAAGTCTGGGGACAGAGCGC 123

Qy	128	CCCGGCCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACC	187
Db	124	CCCGGCCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACC	183
Qy	188	ATACCATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCCTGC	247
Db	184	ATACCATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCCTGC	243
Qy	248	TGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAG	307
Db	244	TGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAG	303
Qy	308	TGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATA	367
Db	304	TGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATA	363
Qy	368	GATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTT	427
Db	364	GATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTT	423
Qy	428	CCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAA	487
Db	424	CCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAA	483
Qy	488	G TTCCTGCACCATGACCAGAGACACAGTGTGT CAGTGTAAAGAAGGCACCTTCCGGAATG	547
Db	484	G TTCCTGCACCATGACCAGAGACACAGTGTGT CAGTGTAAAGAAGGCACCTTCCGGAATG	543
Qy	548	AAAACTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCA	607
Db	544	AAAACTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCA	603
Qy	608	GTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTG	667
Db	604	GTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTG	663
Qy	668	TGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTG	727
Db	664	TGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTG	723
Qy	728	CTGAAGAGACAATGAACACCAGCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGA	787
Db	724	CTGAAGAGACAATGAACACCAGCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGA	783
Qy	788	CCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGA	847
Db	784	CCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGA	843
Qy	848	CTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTC	907
Db	844	CTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTC	903
Qy	908	ATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTG	967
Db	904	ATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTG	963

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Qy  968 TTTGAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGTAGGCGCT 1027
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Db  964 TTTGAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGTAGGCGCT 1023

Qy  1028 GGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCCACA 1087
      |||
Db  1024 GGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCCACA 1083

Qy  1088 GACAGAAACGCCTGCCCCCTGCCCCAA 1113
      |||
Db  1084 GACAGAAACGCCTGCCCCCTGCCCCAA 1109

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RESULT 3

V51348

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ID  V51348 standard; DNA; 1392 BP.
AC  V51348;
DT  23-OCT-1998 (first entry)
DE  Human TRID genomic DNA.
KW  TRAIL receptor without intracellular domain; TRID; TNFR-5; human;
KW  tumour necrosis factor receptor-5; TNF-related apoptosis-inducing ligand;
KW  haematopoietic tissue; immune system; ligand; apoptosis; treatment; ss.
OS  Homo sapiens.
FH  Key          Location/Qualifiers
FT  CDS          183..962
FT              /*tag= a
FT  sig_peptide  183..260
FT              /*tag= b
FT  mat_peptide  261..959
FT              /*tag= c
FT              /product= "TRID"
FT              /note= "TRAIL receptor without intracellular domain"
PN  WO9830693-A2.
PD  16-JUL-1998.
PF  13-JAN-1998; U00152.
PR  07-AUG-1997; US-054885.
PR  14-JAN-1997; US-035496.
PA  (HUMA-) HUMAN GENOME SCI INC.
PI  Ebner R, Feng P, Gentz RL, Ni J, Ruben SM, Wei Y,
PI  Yu G;
DR  WPI; 98-399141/34.
DR  P-PSDB; W64668.
PT  Human TRAIL receptor without an intracellular domain polypeptide -
PT  used in the diagnosis of immune system-related disorder(s)
PS  Claim 2; Fig 1; 90pp; English.
CC  This sequence encodes a human TRID (TRAIL (TNF-related apoptosis-inducing
CC  ligand) receptor without an intracellular domain). TRID is a member of
CC  the tumour necrosis factor receptor (TNFR) family also known as TNFR-5.
CC  TRID is expressed in haematopoietic tissues and other normal human
CC  tissues. For a number of immune system-related disorders, substantially
CC  altered (whether increased or decreased) levels of TRID gene expression
CC  can be detected, therefore the TRID polypeptides, nucleic acids and
CC  antibodies are useful in the diagnosis of such immune system related
CC  disorders. Mutations of the TRID gene can also be detected. TRID can also
CC  be used to identify ligands which may be useful in the treatment of
CC  apoptosis related disorders. TRID is administered to humans at a
CC  parenteral dose of 0.01 to 1 mg/kg/day.

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SQ Sequence 1392 BP; 329 A; 418 C; 368 G; 277 T;

Qy	11	CCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTTTGGGAGTTTGACCAG	70
Db	1	CCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTTTGGGAGTTTGACCAG	60
Qy	71	AGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGGGGACAGAGCGCCCC	130
Db	61	AGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGGGGACAGAGCGCCCC	120
Qy	131	GGCCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATA	190
Db	121	GGCCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATA	180
Qy	191	CCATGGCCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCCTGCTGC	250
Db	181	CCATGGCCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCCTGCTGC	240
Qy	251	CAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGG	310
Db	241	CAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGG	300
Qy	311	CCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGAT	370
Db	301	CCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGAT	360
Qy	371	CAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCA	430
Db	361	CAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCA	420
Qy	431	ACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTT	490
Db	421	ACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTT	480
Qy	491	CCTGCACCATGACCAGAGACACAGTGTGTCAGTGTAAAGAAGGCACCTTCCGGAATGAAA	550
Db	481	CCTGCACCATGACCAGAGACACAGTGTGTCAGTGTAAAGAAGGCACCTTCCGGAATGAAA	540
Qy	551	ACTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTA	610
Db	541	ACTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTA	600
Qy	611	ATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGG	670
Db	601	ATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGG	660
Qy	671	AAACCCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTG	730
Db	661	AAACCCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTG	720
Qy	731	AAGAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCA	790

Db 721 AAGAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCA 780

Qy 791 CCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTC 850
 |||

Db 781 CCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTC 840

Qy 851 CTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATT 910
 |||

Db 841 CTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATT 900

Qy 911 ACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGT 970
 |||

Db 901 ACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGT 960

Qy 971 GAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGTAGGCGCTGGC 1030
 |||

Db 961 GAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGTAGGCGCTGGC 1020

Qy 1031 TGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCCACAGAC 1090
 |||

Db 1021 TGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCCACAGAC 1080

Qy 1091 AGAAACGCCTGCCCCTGCCCCAA 1113
 |||

Db 1081 AGAAACGCCTGCCCCTGCCCCAA 1103

RESULT 4

X23412

ID X23412 standard; DNA; 1365 BP.

AC X23412;

DT 18-JUN-1999 (first entry)

DE Human hAPO9 DNA.

KW Tumour necrosis factor receptor; signal transducer molecule; TNF; APO4;

KW developmental abnormality; gestational abnormality; prostate cancer;

KW APO6; APO8; APO9; TNRL-1; TNRL-3; diagnosis; treatment; therapy; disease;

KW cytoplasmic domain; immunogen; antibody preparation; breast carcinoma;

KW apoptosis; human; ss.

OS Homo sapiens.

FH Key Location/Qualifiers

FT CDS 123. .955

FT /*tag= a

FT /product= "APO9"

PN WO9911791-A2.

PD 11-MAR-1999.

PF 04-SEP-1998; U18393.

PR 05-SEP-1997; US-924634.

PA (UNIW) UNIV WASHINGTON.

PI Chaudhary PM;

DR WPI; 99-205191/17.

DR P-PSDB; W93578.

PT New Tumor Necrosis Factor family receptor polypeptides and ligands -

PT useful for diagnosis and treatment of prostate cancer and

PT developmental or gestational abnormalities

PS Example III; Fig 6; 156pp; English.

CC This invention describes isolated Tumor Necrosis Factor (TNF) family

CC receptor polypeptides: APO4, APO6, APO8 and APO9 or their active

CC fragments, and isolated TNF related ligands 1 and 3 (TNRL1 and TNRL3) or
 CC their active fragments. APO4 is useful for diagnosing prostate cancer
 CC by determining levels of APO4 in an individual. Prostate cancer can also
 CC be treated using APO4 selective binding agents linked to a therapeutic
 CC moiety. APO4 polypeptides are also useful for identifying selective
 CC binding agents, useful in diagnosis/treatment of disease by binding of
 CC agents to the polypeptide/active fragment which is extracellular, or
 CC expressed on the cell surface. The binding is preferably performed in
 CC vivo. APO4 polypeptides/ active fragments are also useful for screening
 CC for agonists and antagonists by binding and observing the changer in APO4
 CC activity. Effective pharmacological agents useful in diagnosis or
 CC treatment of disease are also identified using APO4 polypeptides/active
 CC fragments and APO4 signal transducer molecules that specifically interact
 CC with a cytoplasmic domain of APO4 and detecting a change in level of APO4
 CC activity. The method is performed in vivo or in vitro. APO polypeptides
 CC are all useful as immunogens for preparing antibodies. APO4 is also
 CC useful for diagnosis/treatment of developmental or gestational
 CC abnormalities. APO8 was transfected to human breast carcinoma cell line
 CC MCF-7, and induced apoptosis.
 SQ Sequence 1365 BP; 321 A; 411 C; 362 G; 271 T;

Query Match 90.5%; Score 1067.6; DB 1; Length 1365;
 Best Local Similarity 99.5%; Pred. No. 2.7e-216;
 Matches 1092; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

Qy	17	CACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC	76
Db	1	CACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC	60
Qy	77	AAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAAGTCTGGGGACAGAGCGCCCCGGCCGC	136
Db	61	AAGGGGTGAAGGAGCGCTTCCTACCGTTA-GGAAGTCTGGGGACAGAGCGCCCCGGCCGC	119
Qy	137	CTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG	196
Db	120	CTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG	179
Qy	197	CCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCCTGCTGCCAGTCC	256
Db	180	CCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCCTGCTGCCAGTCC	239
Qy	257	TAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	316
Db	240	TAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	299
Qy	317	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	376
Db	300	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	359
Qy	377	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	436
Db	360	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	419
Qy	437	AACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCCTGCA	496
Db	420	AACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCCTGCA	479

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Qy  497 CCATGACCAGAGACACAGTGTGTCAGTGTAAAGAAGGCACCTTCCGGAATGAAAACCTCCC 556
      |||
Db  480 CCATGACCAGAGACACAGTGTGTCAGTGTAAAGAAGGCACCTTCCGGAATGAAAACCTCCC 539

Qy  557 CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA 616
      |||
Db  540 CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA 599

Qy  617 CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC 676
      |||
Db  600 CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC 659

Qy  677 CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA 736
      |||
Db  660 CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA 719

Qy  737 CAATGAACACCAGCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC 796
      |||
Db  720 CAATGAACACCAGCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC 779

Qy  797 CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC 856
      |||
Db  780 CGGGGACTCCTGCCCCAGCTGCTGAAGAGAGAATGACCACCAGCCCGGGGACTCCTGCCC 839

Qy  857 CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT 916
      |||
Db  840 CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT 899

Qy  917 CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA 976
      |||
Db  900 CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA 959

Qy  977 CTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTCA-GGTAGGCGCTGGCTGAGG 1035
      |||
Db  960 CTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTACGTTACGCGCTGGCTGAAG 1019

Qy  1036 GCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCACAGACAGAAA 1095
      |||
Db  1020 GCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCACAGACAGAAA 1079

Qy  1096 CGCCTGCCCCTGCCCCAA 1113
      |||
Db  1080 CGCCTGCCCCTGCCCCAA 1097

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RESULT 5

X16692

ID X16692 standard; cDNA; 1347 BP.

AC X16692;

DT 04-MAY-1999 (first entry)

DE Human TNF-related apoptosis-inducing ligand binding protein cDNA.

KW Human; TNF-related apoptosis-inducing ligand binding protein; clotting;

KW TRAIL-BP; tumour necrosis factor; T cell death; HIV; gene therapy;

KW thrombotic microangiopathy; thrombotic thrombocytopenic purpura;

KW haemolytic-uraemic syndrome; systemic lupus erythematosus; ss.

OS Homo sapiens.

FH Key Location/Qualifiers
 FT CDS 24. .923
 FT /*tag= a
 PN WO9900423-A1.
 PD 07-JAN-1999.
 PF 25-JUN-1998; U13491.
 PR 26-JUN-1997; US-883529.
 PA (IMMV) IMMUNEX CORP.
 PI Smith CA, Walczak H;
 DR WPI; 99-095685/08.
 DR P-PSDB; W94671.
 PT New isolated TRAIL binding protein - which binds to a tumour
 PT necrosis factor-related apoptosis inducing ligand, used in the
 PT diagnosis and treatment of TRAIL-mediated disorders
 PS Claim 1; Fig 1; 47pp; English.
 CC The present sequence encodes human tumour necrosis factor (TNF)-related
 CC apoptosis-inducing ligand (TRAIL) binding protein (BP). TRAIL-BP can be
 CC used for inhibiting the biological activities of TRAIL or for purifying
 CC TRAIL. TRAIL-BP proteins can be used for treating a TRAIL-mediated
 CC disorder such as T cell death in HIV-infected patients. They can be used
 CC for treating thrombotic microangiopathies such as thrombotic
 CC thrombocytopenic purpura, haemolytic-uraemic syndrome, clotting of small
 CC blood vessels or systemic lupus erythematosus. The TRAIL-BP nucleic
 CC acids can also be used for gene therapy. They can also be used as
 CC carriers for delivering attached agents to cells bearing TRAIL.
 SQ Sequence 1347 BP; 326 A; 401 C; 361 G; 259 T;

Query Match 89.6%; Score 1057; DB 1; Length 1347;
 Best Local Similarity 100.0%; Pred. No. 4.6e-214;
 Matches 1057; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	57	GGGAGTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGG	116
Db	8	GGGAGTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGG	67
Qy	117	GGACAGAGCGCCCCGGCCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGG	176
Db	68	GGACAGAGCGCCCCGGCCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGG	127
Qy	177	CGTCGGGAACCATAACCATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGT	236
Db	128	CGTCGGGAACCATAACCATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGT	187
Qy	237	CGCGGTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCC	296
Db	188	CGCGGTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCC	247
Qy	297	CCAGCAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGC	356
Db	248	CCAGCAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGC	307
Qy	357	AGGATCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTA	416
Db	308	AGGATCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTA	367
Qy	417	CACCAACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCA	476

Db	368		CACCAACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCA	427
Qy	477		AAAACATAAAAGTTCCTGCACCATGACCAGAGACACAGTGTGTCAAGTGTAAAGAAGGCAC	536
Db	428		AAAACATAAAAGTTCCTGCACCATGACCAGAGACACAGTGTGTCAAGTGTAAAGAAGGCAC	487
Qy	537		CTTCCGGAATGAAAACCTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGA	596
Db	488		CTTCCGGAATGAAAACCTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGA	547
Qy	597		AGTCCAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGC	656
Db	548		AGTCCAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGC	607
Qy	657		CAATGCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCC	716
Db	608		CAATGCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCC	667
Qy	717		TGCCCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGA	776
Db	668		TGCCCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGA	727
Qy	777		AGAGACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCAC	836
Db	728		AGAGACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCAC	787
Qy	837		CAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCC	896
Db	788		CAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCC	847
Qy	897		TGCCTCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCT	956
Db	848		TGCCTCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCT	907
Qy	957		GATTGTGTTTGTGTTGAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTC	1016
Db	908		GATTGTGTTTGTGTTGAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTC	967
Qy	1017		AGGTAGGCGCTGGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCT	1076
Db	968		AGGTAGGCGCTGGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCT	1027
Qy	1077		GTGTTCCACAGACAGAAACGCCTGCCCCCTGCCCCAA	1113
Db	1028		GTGTTCCACAGACAGAAACGCCTGCCCCCTGCCCCAA	1064

RESULT 6

X27280

ID X27280 standard; DNA; 900 BP.

AC X27280;

DT 02-JUN-1999 (first entry)

DE Human TRAIL-R3 coding sequence.

KW Human; DR5; DR5s; TRAIL-R3; apoptosis related condition; cancer; therapy;

KW autoimmune disease; viral infection; degenerative disorder;

KW amyotrophic lateral sclerosis; retinitis pigmentosa; ischaemic injury;

KW cerebellar degeneration; myelodysplastic syndrome; ss.
 OS Homo sapiens.
 PN WO9909165-A1.
 PD 25-FEB-1999.
 PF 14-AUG-1998; U16945.
 PR 15-AUG-1997; US-055906.
 PA (IDUN-) IDUN PHARM INC.
 PI Alnemri ES;
 DR WPI; 99-181035/15.
 DR P-PSDB; Y00933.
 PT Newly isolated polynucleotide encoding a mammalian TRAIL receptor
 PT protein - useful in for screening for (ant)agonists that modulate
 PT the apoptotic activity mediated by DR5 or TRAIL-R3 proteins
 PS Claim 7; Page 62-63; 71pp; English.
 CC This sequence encodes the human TRAIL receptor TRAIL-R3 of the invention.
 CC An antibody against the TRAIL receptors is useful for detecting mammalian
 CC DR5 or TRAIL-R3 proteins in a sample. Recombinant cells are useful in
 CC bioassays for screening for (ant)agonists of DR5 or TRAIL-R3 proteins.
 CC (Ant)agonists identified by the assay are useful for modulating the
 CC apoptotic activity mediated by DR5 or TRAIL-R3 proteins. Apoptosis
 CC related conditions which are treated in this way, include cancer
 CC (e.g. lymphomas and carcinomas), autoimmune diseases (e.g. systemic lupus
 CC erythematosus and immune-mediated glomerulonephritis), viral infections
 CC (e.g. herpes virus, poxvirus and adenovirus), degenerative disorders
 CC (e.g. Alzheimer's disease and Parkinson's disease), amyotrophic lateral
 CC sclerosis, retinitis pigmentosa, cerebellar degeneration, myelodysplastic
 CC syndromes (e.g. aplastic anaemia) and ischaemic injury (e.g. myocardial
 CC infarction and stroke). The polynucleotides can also be used to treat
 CC these diseases. Antisense oligonucleotides to the DNA sequences can be
 CC used to form a composition that is useful for inhibiting expression of a
 CC human DR5 or TRAIL-R3 protein.
 SQ Sequence 900 BP; 228 A; 262 C; 240 G; 170 T;

Query Match 76.1%; Score 898.4; DB 1; Length 900;
 Best Local Similarity 99.9%; Pred. No. 1e-180;
 Matches 899; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	73	ATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGA	ACTCTGGGGACAGAGCGCCCCGG	132
Db	1	ATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGA	ACTCTGGGGACAGAGCGCCCCGG	60
Qy	133	CCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGA	ACCATAACC	192
Db	61	CCGCCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAAGACGGCGTCGGGA	ACCATAACC	120
Qy	193	ATGGCCCGGATCCCCAAGACCCTAAAGTTCGTTCGTTCATCGTCGCGGTCCTGCTGCCA		252
Db	121	ATGGCCCGGATCCCCAAGACCCTAAAGTTCGTTCGTTCATCGTCGCGGTCCTGCTGCCA		180
Qy	253	GTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC		312
Db	181	GTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC		240
Qy	313	CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCA		372
Db	241	CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCA		300

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Qy  373 GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAAC 432
      |||
Db  301 GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAAC 360

Qy  433 AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAACATAAAAGTTCC 492
      |||
Db  361 AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAACATAAAAGTTCC 420

Qy  493 TGCACCATGACCAGAGACACAGTGTGTCAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC 552
      |||
Db  421 TGCACCATGACCAGAGACACAGTGTGTCAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC 480

Qy  553 TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT 612
      |||
Db  481 TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT 540

Qy  613 TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA 672
      |||
Db  541 TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA 600

Qy  673 ACCCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA 732
      |||
Db  601 ACCCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA 660

Qy  733 GAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC 792
      |||
Db  661 GAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC 720

Qy  793 AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT 852
      |||
Db  721 AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT 780

Qy  853 GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC 912
      |||
Db  781 GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC 840

Qy  913 CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA 972
      |||
Db  841 CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA 900

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RESULT 7

X19957

ID X19957 standard; cDNA; 3569 BP.

AC X19957;

DT 15-JUN-1999 (first entry)

DE Human Tango-74 encoding cDNA.

KW Human; Tango-71; Tango-73; Tango-74; Tango-76; Tango-83; diagnosis;

KW detection; ds.

OS Homo sapiens.

FH Key Location/Qualifiers

FT CDS 104. .1264

FT /*tag= a

PN WO9907850-A1.

PD 18-FEB-1999.

PF 06-AUG-1998; U16502.

PR 05-SEP-1997; US-058108.
PR 06-AUG-1997; US-054966.
PA (MILL-) MILLENNIUM BIOTHERAPEUTICS INC.
PI Goodearl ADJ, Holtzman DA;
DR WPI; 99-167426/14.
DR P-PSDB; Y04144.
PT New TANGO polypeptides and nucleic acids encoding them - useful as
PT diagnostic agents and for treating disorders caused by aberrant
PT expression of TANGO
PS Claim 1; Fig 3; 84pp; English.
CC The present sequence encodes human Tango-74. Tango polypeptides are
CC useful for identifying compounds which bind the polypeptide via direct
CC binding, competition binding assays or Tango-71, -73, -74, 76 or -83-
CC mediated signal transduction. Tango polypeptides are also useful for
CC identifying modulating compounds by determining effect on Tango activity.
CC Tango polypeptides and nucleic acids are useful for diagnosing diseases
CC related to aberrant expression of Tango, and Tango polypeptides are
CC useful for raising antibodies which can be used in diagnostic assays for
CC detection of Tango, and also for generating anti-idiotypic antibodies for
CC prevention and protection.
SQ Sequence 3569 BP; 893 A; 821 C; 862 G; 993 T;

Query Match 36.6%; Score 432; DB 1; Length 3569;
Best Local Similarity 77.6%; Pred. No. 1.9e-82;
Matches 582; Conservative 0; Mismatches 145; Indels 23; Gaps 4;

Qy	1	GCTGTGGGAACCTCTCCACGCGCACGAACCTCAGCCAACGATTTCTGATAGATTTTGGGA	60
Db	18	GCTGCGAGAACCTTTGCACGCGCACAACTACGGGGACGATTTCTGATTGATTTTGGCG	77
Qy	61	GTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGGGGAC	120
Db	78	CTTTC-----GATCCACCCTCCTCCCTTCTCATGGGACTTTGGGGAC	119
Qy	121	AGAGCGCCCCGGCCGCCT-GATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGT	179
Db	120	AAAGCGTCCCGACCGCCTCGAGCGCTCGAGCAGGGCGCTATCCAGGAGCCAGGACAGCGT	179
Qy	180	CGGGAACCATAACCATGGC-CCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCG	238
Db	180	CGGGAACCAGACCATGGCTCCTGGACTCCAAGATCCTTAAGTTCGTCGTCCTTCATCGTCG	239
Qy	239	CGGTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCAGGAGGAAGTTCCCC	298

SUMMARIES

% Apo-2DcR

Result No.	Score	Query Match	Length	DB	ID	Description
1	1180	100.0	1180	24	US-08-878-168-2	Sequence 2, Appli
2	1180	100.0	1180	24	US-08-878-168-4	Sequence 4, Appli
3	1180	100.0	1180	24	US-08-878-168-2	Sequence 2, Appli
4	1180	100.0	1180	24	US-08-878-168-4	Sequence 4, Appli
5	1180	100.0	1180	37	US-09-096-500-2	Sequence 2, Appli
6	1180	100.0	1180	37	US-09-096-500-4	Sequence 4, Appli
7	1116.8	94.6	1121	1	PCT-US99-05243-7	Sequence 7, Appli
8	1116.8	94.6	1121	36	US-09-079-124-1	Sequence 1, Appli
9	1116.8	94.6	1121	42	US-09-266-105-7	Sequence 7, Appli
10	1104.4	93.6	1410	20	US-08-795-910-1	Sequence 1, Appli
11	1104.4	93.6	1410	25	US-08-901-469-1	Sequence 1, Appli
12	1103	93.5	1392	34	US-09-006-353A-1	Sequence 1, Appli
13	1103	93.5	1392	55	US-60-035-496-1	Sequence 1, Appli
14	1069.2	90.6	1365	27	US-08-924-634A-5	Sequence 5, Appli
15	1057	89.6	1347	1	PCT-US98-13491-1	Sequence 1, Appli
16	1057	89.6	1347	24	US-08-883-529-1	Sequence 1, Appli
17	1057	89.6	1347	40	US-09-229-980-1	Sequence 1, Appli